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File: USPT

Nov 30, 1999

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DOCUMENT-IDENTIFIER: US 5992752 A

TITLE: Internet-based system for enabling information-related transactions over the internet using Java-enabled internet terminals provided with bar code symbol readers for reading Java-Applet encoded bar code symbols

Drawing Description Text (11):

FIG. 1D(1) is a graphical representation of an exemplary "multiple 1-D" URL-encoded bar code symbol structure according to the present invention, comprising a pair of discrete 1-D URL-encoded bar code symbols, wherein the first bar code symbol contains ASCII code elements representative of the program command (e.g., CTL(L)) that writes the URL into the information resource "Goto" window of the program, the complete URL of an Internet information resource to be accessed (e.g., <http://www.metrologic.com>), and the Internet browser program command (e.g., RTN) that executes a HTTP request on the URL entered into the "Goto" window, whereas the second bar code symbol contains ASCII code elements representative of the Internet browser program command (e.g., CTL(L)) that writes the URL into the information resource "Goto" window of the Internet browser program, the Path Name portion of the URL of the Internet information resource to be accessed (e.g., /Products/ms6720. html), and the program command (e.g., RTN) that executes a HTTP request on the URL entered into the "Goto" window;

Drawing Description Text (28):

FIG. 11B is a schematic representation of an information structure comprising information elements stored in the RDBMS of the RTD Internet Server that are linked to an information storage location in an HTML-encoded web-page which is specified by a Uniform Resource Locator (URL) that has been uniquely assigned to a particular package being tracked within the RTD system of the present invention;

Detailed Description Text (42):

As shown in FIG. 2, the Remote Control Scanning Device 18 of the second preferred embodiment can be realized by integrating a miniature automatic bar code symbol reading module 20 into the wireless remote control device that is provided with the commercially available terminal unit that is used to practice this embodiment of the present invention. Preferably, automatic bar code symbol reading module 20 is similar to the device described in great detail in Applicant's application Ser. No. 08/292,237 supra. Such laser scanning engines, as they are called, are commercially available from Metrologic Instruments, Inc., of Blackwood, N.J. under the tradename ScanQuest.RTM.. The manner in which such a laser scanning engine can be integrated into any one of the remote control devices of the above-identified Internet Terminals, and thus provide the Remote Control Scanning Device 18, will be described below.

Detailed Description Text (100):

The attribute ARCHIVE=archiveList describes one or more archives containing classes and other resources that will be "preloaded" within the browser program. The classes are loaded using an instance of an AppletClassLoader with the given CODEBASE. Multiple APPLET Tags with the same CODEBASE share the same instance of a ClassLoader. This is used by some client code to implement inter-applet communication. Future Java-development Kits (JDKs) may provide other mechanisms for inter-applet communication.

Detailed Description Text (112):

Java-encoded bar code symbols can be applied to preprinted stock trading cards and forms in order to facilitate the purchase and sale of stock among traders, and specialists in the market.

Detailed Description Paragraph Table (1):

```
<APPLET CODEBASE = codebaseURL ARCHIVE =
archiveList CODE = appletFile . . . or. . OBJECT = serializedApplet ALT =
alternateText NAME = appleInstanceName - - <PARAM NAME = appleAttribute1 VALUE =
value> <PARAM NAME = appleAttribute2 VALUE = value> . . . alternateHTML </APPLET>
```

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L19: Entry 46 of 54

File: USPT

Nov 30, 1999

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USPTO NO: 5992752

DOCUMENT-IDENTIFIER: US 5992752 A

TITLE: Internet-based system for enabling information-related transactions over the internet using Java-enabled internet terminals provided with bar code symbol readers for reading Java-Applet encoded bar code symbols

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Knowles; Carl H.	Moorestown	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Metrologic Instruments, Inc.	Blackwood	NJ			02

APPL-NO: 08/ 869164 [PALM]

DATE FILED: June 4, 1997

PARENT-CASE:

RELATED CASES This Application is a Continuation-in-part of: Application Ser. No. 08/846,219 entitled "Programmed Bar Code Symbol Reader For Accessing Internet-based Information Resources By Scanning Java-Applet Encoded Bar Code Symbols" filed Apr. 25, 1997; Application Ser. No. 08/838,501 entitled "Internet-Based System And Method For Tracking Objects Bearing URL-Encoded Bar Code Symbols" by David, M. Wilz, Sr. and C. Harry Knowles, filed Apr. 7, 1997 now U.S. Pat. No. 9,869,819, which is a Continuation-in-Part of Application Ser. No. 08/820,540 entitled "System And Method For Composing And Printing URL-encoded bar code symbol Lists And Menus For Use In Visiting Internet-Based Information Resources By Scanning The Same" by Harry Knowles, filed Mar. 19, 1997, which is a Continuation-in-part of Application Ser. No. 08/753,367 filed Nov. 25, 1996; Application Ser. No. 08/645,331 filed May 3, 1996 now U.S. Pat. No. 5,244,227; Application Ser. No. 08/615,054 filed Mar. 12, 1996; Application Ser. No. 08/573,949 filed Dec. 18, 1995 now abandoned; Application Ser. No. 08/292,237 filed Aug. 17, 1994 now U.S. Pat. No. 5,808,885; Application Ser. No. 08/365,193 filed Dec. 28, 1994 now U.S. Pat. No. 5,557,093; Application Ser. No. 08/293,493 filed Aug. 19, 1994 now U.S. Pat. No. 5,585,789; application Ser. No. 08/561,479 filed Nov. 20, 1995 now 5,661,292; Application Ser. No. 08/278,109 filed Nov. 24, 1993 now U.S. Pat. No. 5,484,992; Application Ser. No. 08/489,305 filed Jun. 9, 1995 now abandoned; Ser. No. 08/476,069 filed Jun. 7, 1995 now 5,591,953; and Application Ser. No. 08/584,135 filed Jan. 11, 1996 now U.S. Pat. No. 5,616,908. Each said patent application is assigned to and commonly owned by Metrologic Instruments, Inc. of Blackwood, N.J. and is incorporated herein by reference in its entirety.

INT-CL: [06] G06 K 7/10

US-CL-ISSUED: 235/472.01; 235/462.01, 235/462.25
 US-CL-CURRENT: 235/472.01; 235/462.01, 235/462.25

FIELD-OF-SEARCH: 235/462, 235/454, 235/463, 235/467, 235/469, 235/375, 235/470,
 235/462.01, 235/462.25, 235/462.24, 235/472

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4654482</u>	March 1987	DeAngelis	
<input type="checkbox"/> <u>4841132</u>	June 1989	Kajitani et al.	
<input type="checkbox"/> <u>5157687</u>	October 1992	Tymes	
<input type="checkbox"/> <u>5280498</u>	January 1994	Tymes et al.	
<input type="checkbox"/> <u>5288976</u>	February 1994	Citron et al.	
<input type="checkbox"/> <u>5483052</u>	January 1996	Smith, III et al.	
<input type="checkbox"/> <u>5635694</u>	June 1997	Tuhro	
<input type="checkbox"/> <u>5640193</u>	June 1997	Wellner	348/7

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0 744 856 A2	November 1996	EP	
0 837 406 A2	April 1998	EP	
WO 97/01137	January 1997	WO	
WO 97/38389	October 1997	WO	
WO 98/06055	February 1998	WO	
WO 98/09243	March 1998	WO	
WO 98/19259	May 1998	WO	
WO 98/20411	May 1998	WO	

OTHER PUBLICATIONS

U.S. application No. 08/691,263, Swift et al., filed Aug. 2, 1996.

ART-UNIT: 286

PRIMARY-EXAMINER: Le; Thien Minh

ATTY-AGENT-FIRM: Perkowski, Esq.; Thomas J.

ABSTRACT:

A novel transaction-enabling system is disclosed, wherein a transaction-enabling

Java-Applet is embedded within 2-D bar code symbol. An HTML-encoded document and code associated with the transaction-enabling Java-Applet is created and stored in an HTTP server for use in enabling a predetermined information-related transaction. When a bar code symbol encoded with a transaction-enabling Java-Applet is read using a bar code symbol reader interfaced with a Java-enabled Internet terminal, the corresponding code is automatically accessed and the HTML-encoded document is displayed at the terminal, and the transaction-enabling Java-Applet initiated for execution so that the customer, consumer or client desiring the transaction can simply and conveniently conduct the information-related transaction over the Internet.

9 Claims, 33 Drawing figures

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